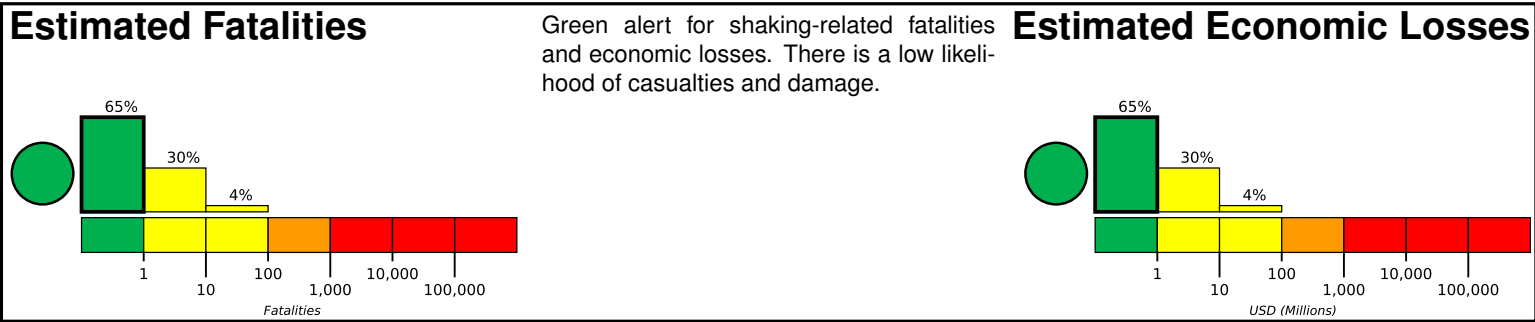


M 4.0, 4 km SE of Madison, Ohio
Origin Time: 2023-08-28 02:43:26 UTC (Sun 22:43:26 local)
Location: 41.7428° N 81.0135° W Depth: 7.2 km

PAGER Version 2

Created: 26 minutes, 34 seconds after earthquake

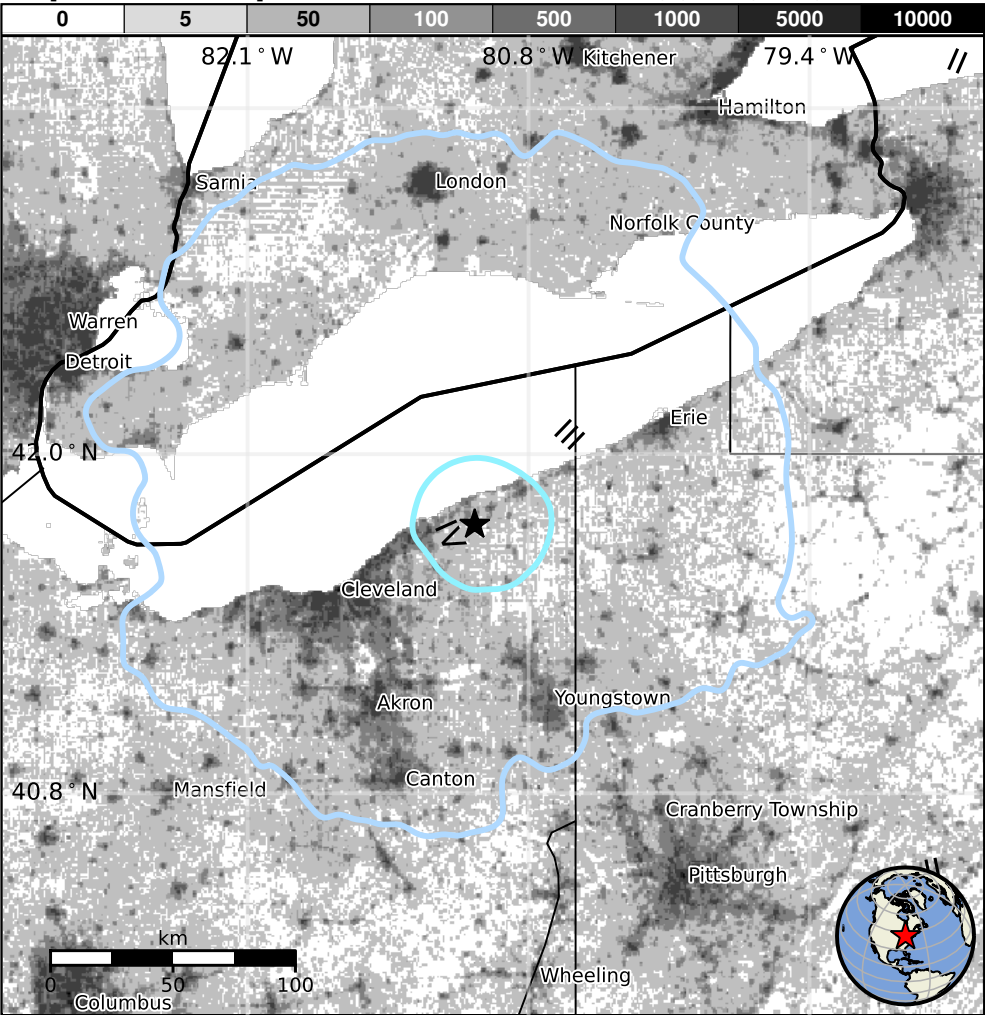


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	19,046k	184k	3k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1986-07-12	311	4.5	V(21k)	—
1998-09-25	58	4.5	V(24k)	—
1986-01-31	19	5.0	V(165k)	0

Selected City Exposure

MMI	City	Population
IV	Madison	3k
IV	North Madison	9k
IV	Geneva	6k
IV	Perry	2k
IV	Geneva-on-the-Lake	1k
IV	Roaming Shores	2k
III	Cleveland	397k
III	London	347k
II	Detroit	714k
II	Hamilton	520k
II	Columbus	787k